JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 73, No. 1 April 1992

CONTENTS

CONTRIBUTED PAPERS

On the Classical Logarithmic Barrier Function Method for a Class of Smooth Convex Programming Problems, *D. Den Hertog, C. Roos, and T. Terlaky* 1

Directional Derivatives of Optimal Solutions in Smooth Nonlinear Programming, *J. F. Bonnans* 27

A Finite, Nonadjacent Extreme-Point Search Algorithm for Optimization over the Efficient Set, *H. P. Benson* 47

Refinements of Necessary Conditions for Optimality in Nonlinear Programming, *F. Facchinei* 65

Optimal Diffusion of a New Technology When Both Demand and Supply Are Nonstatic, *M. Gatto and L. L. Ghezzi* 75

Linear Complementarity and Discounted Switching Controller Stochastic Games, *T. A. Schultz* 89

Differential Stability in Non-Lipschitzian Optimization, *D. E. Ward* 101

Proximal Normal Analysis Approach to Optimal Control Problems in Infinite-Dimensional Spaces, *N. Basile and M. Mininni* 121

Exact Minimum-Time Control of a Distributed System Using a Traveling Wave Formulation, *J. K. Bennighof and R. L. Boucher* 149

Reachability Properties of Constrained Linear Systems, *M. Fashoro, O. Hàjek, and K. Loparo* 169

TECHNICAL NOTES

Tolerance Approach to Sensitivity Analysis in Linear Complementarity Problems, *C. D. Ha and S. C. Narula* 197

Error Bounds for Generalized Lagrange Multipliers in Locally Lipschitz Programming, *M. Pappalardo* 205

On Nash Equilibria in N-Person Games over Reflexive Banach Spaces, *J. Yu* 211

GENERAL INFORMATION

Editorial Policy 215

Preparation of Papers 217

Editorial Addresses 221

JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 73, No. 2 May 1992

CONTENTS

EDITORIAL

In Memory of Magnus R. Hestenes, *L. D. Berkovitz* 225

CONTRIBUTED PAPERS

Superlinear and Quadratic Convergence of Primal–Dual Interior-Point Methods for Linear Programming Revisited, *Y. Zhang and R. A. Tapia* 229

Partitionable Variational Inequalities with Applications to Network and Economic Equilibria, *S. C. Dafermos and S. C. McKelvey* 243

Superlinear Convergence Theorems for Newton-Type Methods for Nonlinear Systems of Equations, *J. Abaffy* 269

Local–Global Properties of Bifunctions, *Z. First, S. T. Hackman, and U. Passy* 279

Variationally Derived Scaling and Variable Metric Updates from the Preconvex Part of the Broyden Family, *L. Lukšan* 299

Numerical Solution of Second-Order Nonlinear Singularly Perturbed Boundary-Value Problems by Initial-Value Methods, *M. G. Gasparo and M. Macconi* 309

Controllability Properties of Constrained Linear Systems, *M. Fashoro, O. Hàjek, and K. Loparo* 329

Optimal Control of Differential-Difference Systems with Intragroup Symmetry, *R. T. Yanushevsky* 347

Stochastic Differential Games: Occupation Measure Based Approach, *V. S. Borkar and M. K. Ghosh* 359

Domain Sensitivity for Singular Elliptic Problems: Harmonic Transformation Approach, *A. Zochowski* 387

TECHNICAL NOTE

General Algorithm for Variational Inequalities, *M. A. Noor* 409

BOOK NOTICES 415

GENERAL INFORMATION

Editorial Policy 417

Preparation of Papers 419

Editorial Addresses 423

JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 73, No. 3 June 1992

CONTENTS

CONTRIBUTED PAPERS

Asymptotic Properties of the Fenchel Dual Functional and Applications to Decomposition Problems, *A. Auslender* 427

Proximal Minimization Algorithm with *D*-Functions, *Y. Censor and S. A. Zenios* 451

On a Class of Hybrid Methods for Smooth Constrained Optimization, *H. Kleinmichel, C. Richter, and K. Schönefeld* 465

Parallel Initial-Value Algorithms for Singularly Perturbed Boundary-Value Problems, *M. G. Gasparo and M. Macconi* 501

Parallel Solver for Trajectory Optimization Search Directions, *M. L. Psiaki and K. H. Park* 519

Global Optimization Approach to Nonlinear Optimal Control, *O. Rosen and R. Luus* 547

Optimal Damping Ratio for Linear Second-Order Systems, *S. M. Shahruz, G. Langari, and M. Tomizuka* 563

Optimal Control of a Facility with Periodic Interrupted Demand, *H. I. Stern* 577

BOOK NOTICES 601

GENERAL INFORMATION

Editorial Policy 603

Preparation of Papers 605

Editorial Addresses 609

AUTHOR INDEX TO VOLUME 73 613